

Abstract of the Disclosure

5 A method and apparatus for computing GPS receiver
position without using absolute time information
transmitted by the satellite or by an alternative source of
timing available at the GPS receiver. The GPS receiver is
contained in an integrated receiver that also includes a
10 wireless communication transceiver, but does not have
access to an accurate source of absolute time information.
The wireless transceiver communicates through a wireless
network to a server. The GPS receiver measures satellite
pseudoranges and uses the wireless communication
15 transceiver to send the pseudoranges to the server. The
server fits the pseudoranges to a mathematical model in
which the GPS receiver position and the absolute time are
unknown parameters. The server then computes a position
and absolute time that best fit the model, thus yielding
20 the correct position for the GPS receiver, and the absolute
time at which the pseudorange measurements were made.